

## CLAIMS

1           1. Position sensing system, specifically for elevators, comprising at least one sensor  
2   which is able to move relative to a transducer for the sensor, characterized in that a scale is  
3   provided as the transducer, to which scale a code (11-15, 19) detectable by the sensor is applied  
4   by which the position of the sensor relative to the scale is able to be measured.

1           2. Position sensing system according to Claim 1, characterized in that detection of the  
2   position is effected by the sensor using a noncontact means.

1           3. Position sensing system according to Claim 1 or 2, characterized in that the scale has  
2   multiple magnetic fields.

1           4. Position sensing system according to Claim 1, characterized in that the scale has at  
2   least two different codes (11-15, 19) arranged so as to be adjacent to each other.

1           5. Position sensing system according to Claim 1, characterized in that multiple sensors  
2   are provided by which redundant scanning of the one or multiple codes (11-15, 19) may be  
3   implemented.

1           6. Position sensing system according to Claim 1, characterized in that a comparator is  
2   provided which compares the position and/or speed values measured by the two sensors.

1           7. Position sensing system according to Claim 1, characterized in that a code (11-15, 19)  
2   has a scale of up to 2 mm.